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Thu, 14 Sep 2006, 4:35:19 PM EST

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#1	((piezo and grounded not suspension) <in>metadata)	0
#2	((piezo and grounded and suspension) <in>metadata)	0
#3	((piezo and grounded)<in>metadata)	0
#4	((piezo and (differentially or bipolar)) <in>metadata)	7
#5	((piezoelectric and (differentially or bipolar)) <in>metadata)	42
#6	((pzt and (differentially or bipolar))<in>metadata)	12

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## Search history:

No.	Database	Search term	Info added since	Results	
1	INZZ	<b>piezo ADJ piezoelectric ADJ pzt</b>	unrestricted	0	-
2	INZZ	<b>piezo OR piezoelectric OR pzt</b>	unrestricted	75703	<a href="#">show titles</a>
3	INZZ	<b>bipolar OR differential OR differentially</b>	unrestricted	337352	<a href="#">show titles</a>
4	INZZ	<b>data ADJ storage OR drive OR recording OR HDD</b>	unrestricted	221142	<a href="#">show titles</a>
5	INZZ	<b>2 AND 3 AND 4</b>	unrestricted	76	<a href="#">show titles</a>
6	INZZ	<b>insulated OR isolated</b>	unrestricted	118717	<a href="#">show titles</a>
7	INZZ	<b>suspension OR actuator OR arm OR e-block</b>	unrestricted	63823	<a href="#">show titles</a>
8	INZZ	<b>grounded</b>	unrestricted	8316	<a href="#">show titles</a>
9	INZZ	<b>5 AND 6</b>	unrestricted	2	<a href="#">show titles</a>
10	INZZ	<b>5 AND 7</b>	unrestricted	4	<a href="#">show titles</a>
11	INZZ	<b>5 AND 8</b>	unrestricted	0	-
12	INZZ	<b>9 OR 10</b>	unrestricted	6	<a href="#">show titles</a>

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- Classification codes A: Physics, 2-3
- Classification codes A: Physics, 4-5
- Classification codes A: Physics, 6
- Classification codes A: Physics, 7
- Classification codes A: Physics, 8
- Classification codes A: Physics, 9
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## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	5	US-6078473-\$.DID. OR US-6108175-\$.DID. OR US-5656882-\$.DID. OR US-6157522-\$.DID. OR US-6134087-\$.DID.	US-PGPUB; USPAT	OR	OFF	2006/09/13 22:50
S2	5626	load adj beam	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:50
S3	703930	suspension	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S4	484682	actuator	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S5	3119677	via	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S7	1832054	hole	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S8	741486	aperture	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S9	8358074	through	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51

## EAST Search History

S10	58756	pierced	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S11	2752957	opening	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S12	526898	pad	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S13	680751	bonding	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S14	1259630	lead	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S15	2808497	connection	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S16	5549110	electric\$5	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52
S17	648440	wire?	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52

## EAST Search History

S18	533970	wiring	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52
S19	4259699	circuit\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52
S20	53595	piezo	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52
S21	199066	piezoelectric	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52
S22	21186	piezo?electric	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52
S23	19632	PZT	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:52
S24	688868	differential	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:52
S25	56703	differentially	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:52

## EAST Search History

S26	150229	bipolar	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:53
S27	446	bipolarity	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:53
S28	1163003	S2 S3 S4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:55
S29	11036754	S5 S7 S8 S9 S10 S11	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:55
S30	53595	piezo	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S31	199066	piezoelectric	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S32	21186	piezo?electric	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S33	19632	PZT	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:55

## EAST Search History

S34	243422	S30 S31 S32 S33	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:55
S35	526898	pad	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S36	680751	bonding	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S37	1259630	lead	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S38	2808497	connection	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S39	5549110	electric\$5	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S40	648440	wire?	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S41	533970	wiring	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55

## EAST Search History

S42	4259699	circuit\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S43	10378253	S35 S36 S37 S38 S39 S40 S41 S42	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:55
S44	3119677	via	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S45	1832054	hole	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S46	741486	aperture	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S47	8358074	through	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S48	58756	pierced	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S49	2752957	opening	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55

## EAST Search History

S50	5626	load adj beam	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S51	703930	suspension	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S52	484682	actuator	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S53	1163003	S50 S51 S52	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:56
S54	9260	S34 with S43 with S53	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:56
S55	9260	(S35 S36 S37 S38 S39 S40 S41 S42) with S54	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:58
S56	1550	(S44 S45 S46 S47 S48 S49) with S54	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:58
S57	187966	("360"/\$ "369"/\$ "720"/\$ 29/603\$).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:59

## EAST Search History

S58	83	S56 and S57	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S59	259	(360/294.4).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S60	98	(360/294.3).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S61	54	(360/294.1).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S62	84	(360/294.7).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S63	15	(360/294).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S64	60	(360/290).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S65	35	(360/291.9).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10

## EAST Search History

S66	20	(360/292).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S67	50	(360/244).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S68	139	(360/244.2).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S69	115	(360/245.8).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S70	113	(360/244.5).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:11
S71	960	S59 S60 S61 S62 S63 S64 S65 S66 S67 S68 S69 S70	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:18
S72	434	pass?thru	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:18
S73	11914	pass?through	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:18

## EAST Search History

S74	756995	suspension	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:19
S75	31	(S72 S73) with (S74)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:19